

KOTZIN ET AL.  
"Emergency Deployable GPS Antenna"  
Atty. Docket No. CS 10455

Appl. No. 10/628,200  
Confirm. No. 6111  
Examiner S. Chen; Art Unit 2821

1. (Currently Amended) An electronic device for at least one of transmitting and receiving signals, comprising:

a housing;

at least a ~~GPS (Global Positioning System)~~ satellite positioning system antenna operatively connected to the housing;

a deployment system operatively connected to the satellite positioning system [GPS] antenna, the deployment system moving the satellite positioning system [GPS] antenna from a docked position relative to the housing to a deployed position relative to the housing in response to an occurrence of at least one predetermined deployment event.

2. (Original) The device according to claim 1, wherein the electronic device is a handheld two-way radio transceiver.

3. (Currently Amended) The device according to claim 1, wherein the satellite positioning system [GPS] antenna is a monopole antenna substantially contained in an antenna chamber in the housing, wherein the deployment system has an ejection device, and wherein the satellite positioning system [GPS] antenna has a connection section operatively connected to the ejection device which moves the satellite positioning system [GPS] antenna from the docked position to the deployed position.

4. (Currently Amended) The device according to claim 3 wherein the ejection device is a spring member, and wherein a latch mechanism retains

KOTZIN ET AL.  
"Emergency Deployable GPS Antenna"  
Atty. Docket No. CS 10455

Appl. No. 10/628,200  
Confirm. No. 6111  
Examiner S. Chen; Art Unit 2821

the monopole satellite positioning system [GPS] antenna in the antenna chamber for a docked position.

5. (Currently Amended) The device according to claim 3 wherein the ejection device is a fusible link which connects the connection section of the satellite positioning system [GPS] antenna to a retaining surface of the antenna chamber.

6. (Currently Amended) The device according to claim 3, wherein the ejection device is a compressed gas device that is located between the connection section of the satellite positioning system [GPS] antenna and a retaining surface of the antenna chamber when the satellite positioning system [GPS] antenna is in the docked position.

7. (Currently Amended) The device according to claim 3 wherein the ejection mechanism is a motor operatively connected to the satellite positioning system [GPS] antenna, and wherein the satellite positioning system [GPS] antenna and the antenna chamber have a gear structure such that when the motor is energized, the satellite positioning system [GPS] antenna moves from the docked position to the deployed position.

8. (Currently Amended) The device according to claim 3, wherein the ejection mechanism is a solenoid having a coil and a plunger, wherein the solenoid is contained within a bottom area of the antenna chamber, wherein

KOTZIN ET AL.  
"Emergency Deployable GPS Antenna"  
Atty. Docket No. CS 10455

Appl. No. 10/628,200  
Confirm. No. 6111  
Examiner S. Chen; Art Unit 2821

the plunger has one end connected to the connection section of the satellite positioning system [GPS] antenna, and wherein upon energizing the coil of the solenoid, the plunger moves the antenna from the docked position to the deployed position.

9. (Currently Amended) The device according to claim 3, wherein the ejection mechanism is an airbag-type device, wherein the satellite positioning system [GPS] antenna is an inflatable monopole satellite positioning system [GPS] antenna that is operatively connected to the airbag-type device, and wherein upon receiving a signal the airbag-type device inflates the satellite positioning system [GPS] antenna thereby moving the satellite positioning system [GPS] antenna from the docked position to the deployed position.

10. (Currently Amended) The device according to claim 1, wherein the satellite positioning system [GPS] antenna is an inflatable antenna, wherein the satellite positioning system [GPS] antenna has a compressed configuration for the docked position and inflated by the control system to a monopole satellite positioning system [GPS] antenna configuration for the deployed position.

11. (Currently Amended) The device according to claim 10, wherein the satellite positioning system [GPS] monopole antenna is deployed by an airbag-type device.

KOTZIN ET AL.  
"Emergency Deployable GPS Antenna"  
Atty. Docket No. CS 10455

Appl. No. 10/628,200  
Confirm. No. 6111  
Examiner S. Chen; Art Unit 2821

12. (Currently Amended) The device according to claim 10, wherein the monopole satellite positioning system [GPS] antenna is deployed by a compressed gas device.

13. (Currently Amended) The device according to claim 1, wherein the device further comprises a quadrifilar helix cellular/satellite positioning system [GPS] antenna on which an inflatable monopole satellite positioning system [GPS] antenna is operatively connected.

14. (Currently Amended) The device according to claim 13 wherein the inflatable satellite positioning system [GPS] monopole antenna is inflated to move the satellite positioning system [GPS] monopole antenna from [a] the docked position to the deployed position by one of an airbag-type device and a compressed gas type device.

15. (Currently Amended) The device according to claim 1, wherein the device further comprises a microstrip patch antenna on the housing for use as at least one of a cellular antenna and a satellite positioning system [GPS] antenna, wherein the microstrip patch antenna has an aperture through which a monopole satellite positioning system [GPS] antenna is deployed from the docked position within the housing of the device to the deployed position substantially external to the housing.

KOTZIN ET AL.  
"Emergency Deployable GPS Antenna"  
Atty. Docket No. CS 10455

Appl. No. 10/628,200  
Confirm. No. 6111  
Examiner S. Chen; Art Unit 2821

16. (Currently Amended) The device according to claim 1, wherein the satellite positioning system [GPS] antenna is a monopole satellite positioning system [GPS] antenna having a first end attached to the housing and a second end attached to a microstrip patch antenna, wherein the microstrip antenna is at least a cellular patch antenna, wherein in the docked position the second end of the satellite positioning system [GPS] antenna is substantially adjacent the housing and wherein in the deployed position the second end of the satellite positioning system [GPS] antenna is orientated away from the housing.

17. (Currently Amended) The device according to claim 1, wherein the satellite positioning system [GPS] antenna is rotated from a docked position adjacent the housing to a deployed position in which the satellite positioning system [GPS] antenna has one end positioned away from the housing.

Claims 18-23 (Canceled).

24. (New) A portable wireless communication device, comprising:  
a housing;  
a satellite positioning system receiver communicably coupleable to a first antenna, the satellite positioning system receiver disposed within the housing;

KOTZIN ET AL.  
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Atty. Docket No. CS 10455

Appl. No. 10/628,200  
Confirm. No. 6111  
Examiner S. Chen; Art Unit 2821

a second antenna communicably coupleable to the satellite positioning system,

the second antenna movable between a docket position and a deployed position, the second antenna is disposed substantially within the housing in the docket position, the second antenna protruding substantially from the housing in the deployed position.

25. (New) The portable wireless communication device of Claim 24, the first antenna communicably coupled the satellite positioning system receiver when the second antenna is in the docked position, the second antenna communicably coupled the satellite positioning system receiver when the second antenna is in the deployed position.

26. (New) The portable wireless communication device of Claim 24, a deployment system connected to the second antenna, the deployment system moving the second antenna from the docked position to the deployed position in response to an occurrence of a deployment event.